Please amend the application as follows.

In the Specification:

Please replace the current Specification with the Substitute Specification filed herewith.

In the Sequence Listing:

Please replace the current Sequence Listing with the Substitute Sequence Listing submitted herewith.

In the Claims:

Please cancel claims 1, 17, 19, 26-84, 92-117, and 125-147 without prejudice.

Please replace claims 85, 118, 148, and 158 with the following amended claims:

- 85. (Once Amended) A method of treating an autoimmune system disease or disorder comprising administering to an individual, a therapeutically effective amount of an antagonistic antibody or portion thereof that specifically binds a protein consisting of an amino acid sequence of amino acid residues 134-285 of SEQ ID NO:2.
- 118. (Once Amended) A method of treating rheumatoid arthritis comprising administering to an individual, a therapeutically effective amount of an antagonistic antibody or portion thereof that specifically binds a protein consisting of the amino acid sequence of amino acid residues 134-285 of SEQ ID NO:2.

- 148. (Once Amended) A method of inhibiting leukocyte proliferation, differentiation or survival comprising administering to an individual, a therapeutically effective amount of an antagonistic antibody or portion thereof that specifically binds a protein consisting of an amino acid sequence selected from the group consisting of:
- (a) the amino acid sequence of amino acid residues n to 285 of SEQ ID NO:2, where n is an integer in the range of 2-190;
- (b) the amino acid sequence of amino acid residues 1 to m of SEQ ID NO:2, where m is an integer in the range of 274 to 284; and
- (c) the amino acid sequence of amino acid residues n to m of SEQ ID NO:2, where n is an integer in the range of 2-190 and m is an integer in the range of 274-284.

158. (Once Amended) A method of inhibiting leukocyte proliferation, differentiation or survival comprising administering to an individual, a therapeutically effective amount of an antagonistic antibody or portion thereof that specifically binds a protein consisting of an amino acid sequence of amino acid residues 134-285 of SEQ ID NO:2.

Please add new claims 165 to 182 as follows:

- 165. (New) The method of claim 85 wherein the autoimmune disease or disorder is systemic lupus erythematosus.
- 166. (New) A method of treating an autoimmune disease or disorder comprising administering to an individual, a therapeutically effective amount of an antagonistic antibody or portion thereof that specifically binds to an isolated recombinant Neutrokine-α protein purified from a cell culture wherein the cells in said cell culture comprise a polynucleotide encoding amino acids 1-285 of SEQ ID NO:2 operably associated with a regulatory sequence that controls gene expression.
- 167. (New) The method of claim 166 wherein the antibody or portion thereof is a monoclonal antibody.

- 168. (New) The method of claim 166 wherein the antibody or portion thereof is a polyclonal antibody.
- 169. (New) The method of claim 166 wherein the antibody or portion thereof is a Fab fragment.
- (New) The method of claim 166 wherein the antibody or portion thereof is 170. labeled.
- 171. (New) The method of claim 170 wherein the label is selected from the group consisting of:
 - an enzyme label; (a)
 - (b) a radioisotope;
 - a fluorescent label; and (c)
 - (d) biotin.
- 172. (New) The method of claim 171 wherein the label is a radioisotope selected from the group consisting of:
 - ¹²⁵I; (a)
 - ¹²¹I: (b)
 - ¹³¹I: (c)
 - (d) ¹¹²In; and
 - ^{99m}Tc. (e)
- 173. (New) The method of claim 166 wherein the autoimmune disease or disorder is systemic lupus erythematosus.

- 174. (New) A method of treating rheumatoid arthritis comprising administering to an individual, a therapeutically effective amount of an antagonistic antibody or portion thereof that specifically binds to an isolated recombinant Neutrokine-α protein purified from a cell culture wherein the cells in said cell culture comprise a polynucleotide encoding amino acids 1-285 of SEQ ID NO:2 operably associated with a regulatory sequence that controls gene expression.
- 175. (New) The method of claim 174 wherein the antibody or portion thereof is a monoclonal antibody.
- 176. (New) The method of claim 174 wherein the antibody or portion thereof is a polyclonal antibody.
- 177. (New) The method of claim 174 wherein the antibody or portion thereof is a Fab fragment.
- 178. (New) The method of claim 174 wherein the antibody or portion thereof is labeled.
- 179. (New) The method of claim 178 wherein the label is selected from the group consisting of:
 - (a) an enzyme label;
 - (b) a radioisotope;
 - (c) a fluorescent label; and
 - (d) biotin.
- 180. (New) The method of claim 179 wherein the label is a radioisotope selected from the group consisting of:
 - (a) $^{125}I;$
 - (b) $^{121}I;$
 - (c) $^{131}I;$
 - (d) 112In; and
 - (e) ^{99m}Tc.

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181. (New) The method of claim 148 wherein the leukocyte is a lymphocyte.

182. (New) The method of claim 158 wherein the leukocyte is a lymphocyte.